## CLAIMS

1. A method of making an oxide film, the method comprising:

immersing an object into an electrolyte, the object

being made of magnesium or a magnesium alloy; and

forming an oxide film on the object in the electrolyte by anodizing;

wherein the electrolyte comprises insoluble particles and alkali metal hydroxide, the oxide film taking in the insoluble particles as growing on the object.

2. The method according to claim 1, wherein the insoluble particles are made of at least one of alumina, aluminum hydroxide, silica, titanium oxide, and ceramic oxide.

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- 3. The method according to claim 1, wherein the insoluble particles have an average diameter in a range of 5nm~10µm.
- 4. The method according to claim 1, wherein the insoluble 20 particles have an average diameter in a range of 5nm~500nm.
  - 5. The method according to claim 1, wherein the anodizing is performed by application of an alternating current having a current density in a range of  $2A/dm^2 \sim 5A/dm^2$ .

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6. The method according to claim 1, wherein the alternating current has a frequency in a range of 40Hz~80Hz.

- 7. The method according to claim 1, wherein the electrolyte for performing the anodizing is kept at a temperature in a range of 15°C~60°C.
- 8. The method according to claim 1, wherein the alkali metal hydroxide in the electrolyte has a concentration in a range of 25g/dm<sup>3</sup>~75g/dm<sup>3</sup>.
- 9. The method according to claim 1, wherein the electrolyte
  10 comprises an aqueous solution of a soluble silicate or
  oxyacid salt.
- 10. The method according to claim 9, wherein the soluble silicate in the electrolyte has a concentration in a range of  $100g/dm^3\sim250g/dm^3$ .
  - 11. The method according to claim 9, wherein the oxyacid salt in the electrolyte has a concentration in a range of  $75g/dm^3\sim150g/dm^3$ .

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12. The method according to claim 1, further comprising a step of forming a coating layer on the oxide film, the coating layer being made of at least one of an organic material, an inorganic material, and a metal oxide sol.

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13. A housing comprising:

a housing body made of a magnesium material; and an oxide film formed on the body;

wherein the oxide film contains particles made of at least one of alumina, aluminum hydroxide, silica, titanium oxide, and ceramic oxide, the particles being taken into the oxide film when the film is caused to grow on the body by anodizing.